

Title (en)

DEVICE FOR COOLING ROLLED STOCK

Title (de)

VORRICHTUNG ZUM KÜHLEN VON WALZGUT

Title (fr)

DISPOSITIF DE REFROIDISSEMENT D'UN PRODUIT LAMINÉ

Publication

EP 2934778 B1 20160921 (DE)

Application

EP 13795511 A 20131126

Priority

- DE 102012223848 A 20121219
- EP 2013074751 W 20131126

Abstract (en)

[origin: CA2894480A1] The present invention relates to a device (3) for cooling rolled stock (2), preferably for cooling during cold rolling, comprising a nozzle (32) for applying a cooling medium (34) to the rolled stock (2), wherein a cooling chamber (4) that is in fluid communication with the nozzle (32) and extends substantially parallel to the strip running plane (10) is provided for applying the cooling medium (34) to the rolled stock (2).

IPC 8 full level

B21B 45/02 (2006.01)

CPC (source: EP RU US)

B21B 1/36 (2013.01 - EP); **B21B 37/74** (2013.01 - EP); **B21B 45/02** (2013.01 - RU); **B21B 45/0206** (2013.01 - US); **B21B 45/0209** (2013.01 - US);
B21B 45/0218 (2013.01 - US); **B21B 45/0233** (2013.01 - US); **B21B 37/74** (2013.01 - US); **B21B 45/0218** (2013.01 - EP);
B21B 45/0233 (2013.01 - EP); **B21B 45/0251** (2013.01 - EP); **B21B 45/0281** (2013.01 - EP US); **B21B 2261/20** (2013.01 - EP US);
B21B 2275/06 (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102012223848 A1 20140626; AU 2013361954 A1 20150702; AU 2013361954 B2 20160922; CA 2894480 A1 20140626;
CA 2894480 C 20170919; CN 105121047 A 20151202; CN 105121047 B 20170922; EP 2934778 A1 20151028; EP 2934778 B1 20160921;
JP 2015536247 A 20151221; JP 6042559 B2 20161214; KR 101689155 B1 20161223; KR 20150082578 A 20150715;
RU 2015129098 A 20170125; RU 2612111 C2 20170302; US 2015314349 A1 20151105; US 9643224 B2 20170509;
WO 2014095268 A1 20140626

DOCDB simple family (application)

DE 102012223848 A 20121219; AU 2013361954 A 20131126; CA 2894480 A 20131126; CN 201380066717 A 20131126;
EP 13795511 A 20131126; EP 2013074751 W 20131126; JP 2015545737 A 20131126; KR 20157015172 A 20131126;
RU 2015129098 A 20131126; US 201314653960 A 20131126